



IFWO

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/672,069A

DATE: 08/13/2004  
TIME: 15:41:36

Input Set : A:\SEQLIST corr.txt  
Output Set: N:\CRF4\08132004\J672069A.raw

4 <110> APPLICANT: RANA, Tariq M.  
 5 CHIU, Ya-Lin  
 8 <120> TITLE OF INVENTION: IN VIVO GENE SILENCING BY CHEMICALLY  
 9 MODIFIED AND STABLE siRNA  
 12 <130> FILE REFERENCE: UMY-062  
 14 <140> CURRENT APPLICATION NUMBER: 10/672069A  
 15 <141> CURRENT FILING DATE: 2003-09-25  
 17 <150> PRIOR APPLICATION NUMBER: 60/413529  
 18 <151> PRIOR FILING DATE: 2002-09-25  
 20 <150> PRIOR APPLICATION NUMBER: 60/426982  
 21 <151> PRIOR FILING DATE: 2002-11-15  
 23 <150> PRIOR APPLICATION NUMBER: 60/458051  
 24 <151> PRIOR FILING DATE: 2003-03-25  
 26 <150> PRIOR APPLICATION NUMBER: 60/493095  
 27 <151> PRIOR FILING DATE: 2003-08-05  
 29 <160> NUMBER OF SEQ ID NOS: 34  
 31 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 33 <210> SEQ ID NO: 1  
 34 <211> LENGTH: 21  
 35 <212> TYPE: DNA  
 36 <213> ORGANISM: Artificial Sequence  
 38 <220> FEATURE:  
 39 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at  
 40 positions 20 and 21  
 42 <400> SEQUENCE: 1  
 43 gcagcacgac uucuucaagt t  
 45 <210> SEQ ID NO: 2  
 46 <211> LENGTH: 21  
 47 <212> TYPE: DNA  
 48 <213> ORGANISM: Artificial Sequence  
 50 <220> FEATURE:  
 51 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at  
 52 positions 20 and 21  
 54 <400> SEQUENCE: 2  
 55 cuugaagaag ucgugcugct t  
 57 <210> SEQ ID NO: 3  
 58 <211> LENGTH: 21  
 59 <212> TYPE: RNA  
 60 <213> ORGANISM: Artificial Sequence  
 62 <220> FEATURE:  
 63 <223> OTHER INFORMATION: siRNA target sequence  
 65 <400> SEQUENCE: 3  
 66 aagcagcacg acuucuucaa g

ENTERED

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68 <210> SEQ ID NO: 4  
69 <211> LENGTH: 21  
70 <212> TYPE: RNA  
71 <213> ORGANISM: Artificial Sequence  
73 <220> FEATURE:  
74 <223> OTHER INFORMATION: siRNA target sequence  
76 <400> SEQUENCE: 4  
77 aaggggagc gcguguaugaa c 21  
79 <210> SEQ ID NO: 5  
80 <211> LENGTH: 21  
81 <212> TYPE: DNA  
82 <213> ORGANISM: Artificial Sequence  
84 <220> FEATURE:  
85 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at  
86 positions 20 and 21  
88 <400> SEQUENCE: 5  
89 gugggagcgc gugaugaact t 21  
91 <210> SEQ ID NO: 6  
92 <211> LENGTH: 21  
93 <212> TYPE: DNA  
94 <213> ORGANISM: Artificial Sequence  
96 <220> FEATURE:  
97 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at  
98 positions 20 and 21  
100 <400> SEQUENCE: 6  
101 guucaucacg cgcucccact t 21  
103 <210> SEQ ID NO: 7  
104 <211> LENGTH: 21  
105 <212> TYPE: DNA  
106 <213> ORGANISM: Artificial Sequence  
108 <220> FEATURE:  
109 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at  
110 positions 20 and 21  
112 <220> FEATURE:  
113 <221> NAME/KEY: modified\_base  
114 <222> LOCATION: 1  
115 <223> OTHER INFORMATION: 5'-aminopropyl-modified guanosine  
117 <400> SEQUENCE: 7  
118 gcagcacgac uucucaagt t 21  
120 <210> SEQ ID NO: 8  
121 <211> LENGTH: 21  
122 <212> TYPE: DNA  
123 <213> ORGANISM: Artificial Sequence  
125 <220> FEATURE:  
126 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at  
127 positions 20 and 21  
129 <220> FEATURE:  
130 <221> NAME/KEY: modified\_base  
131 <222> LOCATION: 1

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132 <223> OTHER INFORMATION: 5'-aminopropyl-modified cytidine  
134 <400> SEQUENCE: 8  
135 cuugaagaag ucgugcugct t 21  
137 <210> SEQ ID NO: 9  
138 <211> LENGTH: 21  
139 <212> TYPE: DNA  
140 <213> ORGANISM: Artificial Sequence  
142 <220> FEATURE:  
143 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidine at  
144 positions 20  
146 <220> FEATURE:  
147 <221> NAME/KEY: modified\_base  
148 <222> LOCATION: 21  
149 <223> OTHER INFORMATION: 3'-Puromycin modified deoxythymidine  
151 <400> SEQUENCE: 9  
152 gcagcacgac uucucaagt t 21  
154 <210> SEQ ID NO: 10  
155 <211> LENGTH: 21  
156 <212> TYPE: DNA  
157 <213> ORGANISM: Artificial Sequence  
159 <220> FEATURE:  
160 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidine at  
161 positions 20  
163 <220> FEATURE:  
164 <221> NAME/KEY: modified\_base  
165 <222> LOCATION: 21  
166 <223> OTHER INFORMATION: 3'-Puromycin-modified deoxythymidine  
168 <400> SEQUENCE: 10  
169 cuugaagaag ucgugcugct t 21  
171 <210> SEQ ID NO: 11  
172 <211> LENGTH: 21  
173 <212> TYPE: DNA  
174 <213> ORGANISM: Artificial Sequence  
176 <220> FEATURE:  
177 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidine at  
178 position 20 and 3'-Biotin-modified deoxythymidine at  
179 position 21  
181 <220> FEATURE:  
182 <221> NAME/KEY: modified\_base  
183 <222> LOCATION: 21  
184 <223> OTHER INFORMATION: 3'-Biotin-modified deoxythymidine  
186 <400> SEQUENCE: 11  
187 cuugaagaag ucgugcugct t 21  
189 <210> SEQ ID NO: 12  
190 <211> LENGTH: 23  
191 <212> TYPE: DNA  
192 <213> ORGANISM: Artificial Sequence  
194 <220> FEATURE:  
195 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at

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196 positions 22 and 23  
198 <400> SEQUENCE: 12  
199 gcagcacgac uguucuucaa gtt 23  
201 <210> SEQ ID NO: 13  
202 <211> LENGTH: 23  
203 <212> TYPE: DNA  
204 <213> ORGANISM: Artificial Sequence  
206 <220> FEATURE:  
207 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at  
208 positions 22 and 23  
210 <400> SEQUENCE: 13  
211 cuugaagaaa cgucgugcug ctt 23  
213 <210> SEQ ID NO: 14  
214 <211> LENGTH: 21  
215 <212> TYPE: DNA  
216 <213> ORGANISM: Artificial Sequence  
218 <220> FEATURE:  
219 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxynucleosides at  
220 positions 1-21  
222 <400> SEQUENCE: 14  
223 cuugaagaag ucgugcugct t 21  
225 <210> SEQ ID NO: 15  
226 <211> LENGTH: 21  
227 <212> TYPE: DNA  
228 <213> ORGANISM: Artificial Sequence  
230 <220> FEATURE:  
231 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at  
232 positions 20 and 21  
234 <220> FEATURE:  
235 <221> NAME/KEY: modified\_base  
236 <222> LOCATION: 2, 3, 11, 14, 17  
237 <223> OTHER INFORMATION: 2'-fluoro uridine  
239 <220> FEATURE:  
240 <221> NAME/KEY: modified\_base  
241 <222> LOCATION: 1, 12, 16, 19  
242 <223> OTHER INFORMATION: 2'-fluoro cytidine  
244 <400> SEQUENCE: 15  
245 cuugaagaag ucgugcugct t 21  
247 <210> SEQ ID NO: 16  
248 <211> LENGTH: 21  
249 <212> TYPE: DNA  
250 <213> ORGANISM: Artificial Sequence  
252 <220> FEATURE:  
253 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at  
254 positions 20 and 21, deoxyadenosine at position 9 and  
255 deoxyguanosine at positions 10 and 13  
257 <220> FEATURE:  
258 <221> NAME/KEY: modified\_base  
259 <222> LOCATION: 2, 3, 11, 14, 17

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260 <223> OTHER INFORMATION: 2'-fluoro uridine  
262 <220> FEATURE:  
263 <221> NAME/KEY: modified\_base  
264 <222> LOCATION: 1, 12, 16, 19  
265 <223> OTHER INFORMATION: 2'-fluoro cytidine  
267 <400> SEQUENCE: 16  
268 cuugaagaag ucgugcugct t 21  
270 <210> SEQ ID NO: 17  
271 <211> LENGTH: 21  
272 <212> TYPE: DNA  
273 <213> ORGANISM: Artificial Sequence  
275 <220> FEATURE:  
276 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at  
277 positions 20 and 21, deoxyadenosine at position 9 and  
278 deoxyguanosine at positions 10, 13, 15 and 18  
280 <220> FEATURE:  
281 <221> NAME/KEY: modified\_base  
282 <222> LOCATION: 2, 3, 11, 14, 17  
283 <223> OTHER INFORMATION: fluoro uridine  
285 <220> FEATURE:  
286 <221> NAME/KEY: modified\_base  
287 <222> LOCATION: 1, 12, 16, 19  
288 <223> OTHER INFORMATION: 2'-fluoro cytidine  
290 <400> SEQUENCE: 17  
291 cuugaagaag ucgugcugct t 21  
293 <210> SEQ ID NO: 18  
294 <211> LENGTH: 21  
295 <212> TYPE: DNA  
296 <213> ORGANISM: Artificial Sequence  
298 <220> FEATURE:  
299 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at  
300 positions 20 and 21, deoxyadenosine at position 5, 6, 8, 9 and  
301 deoxyguanosine at positions 4, 7, 10 and 13  
303 <220> FEATURE:  
304 <221> NAME/KEY: modified\_base  
305 <222> LOCATION: 2, 3, 11, 14, 17  
306 <223> OTHER INFORMATION: 2'-fluoro uridine  
308 <220> FEATURE:  
309 <221> NAME/KEY: modified\_base  
310 <222> LOCATION: 1, 12, 16, 19  
311 <223> OTHER INFORMATION: 2'-fluoro cytidine  
313 <400> SEQUENCE: 18  
314 cuugaagaag ucgugcugct t 21  
316 <210> SEQ ID NO: 19  
317 <211> LENGTH: 21  
318 <212> TYPE: DNA  
319 <213> ORGANISM: Artificial Sequence  
321 <220> FEATURE:  
322 <223> OTHER INFORMATION: Synthetic sequence: RNA molecule with deoxythymidines at

**VERIFICATION SUMMARY**

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